| •          | Index of Claims Appl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |          |              |       |              |          |          |          |        |           |          |           |              | pli                    | ication No. |         |                   |           |          |              |                 |                                        | Applicant(s)   |              |            |              |          |                                        |             |                                        |              |                                        |              |          |   |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|--------------|-------|--------------|----------|----------|----------|--------|-----------|----------|-----------|--------------|------------------------|-------------|---------|-------------------|-----------|----------|--------------|-----------------|----------------------------------------|----------------|--------------|------------|--------------|----------|----------------------------------------|-------------|----------------------------------------|--------------|----------------------------------------|--------------|----------|---|
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       |              |          |          |          |        |           |          |           |              | 40                     | 10/814 012  |         |                   |           |          |              |                 |                                        |                | IKEDA ÉT AL. |            |              |          |                                        |             |                                        |              |                                        |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       |              |          |          |          |        |           |          |           | ł            | 10/614,012<br>Examiner |             |         |                   |           |          |              |                 |                                        |                | Art Unit     |            |              |          |                                        |             |                                        |              |                                        |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       |              |          |          |          |        |           |          |           |              |                        |             |         |                   |           |          |              |                 |                                        |                |              |            |              |          |                                        |             |                                        |              |                                        |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | ulli     |              |       |              | III L    | Ш        | LLIF     | 141    | 5 UL      | Ш        |           |              |                        |             |         | Alfred E. Dudding |           |          |              |                 |                                        |                |              |            |              | 2853     |                                        |             |                                        |              |                                        |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       |              |          |          |          | _      |           | _        |           |              |                        |             |         |                   |           |          |              |                 |                                        |                |              |            |              | _        |                                        |             |                                        |              | _                                      |              |          |   |
| X Rejected |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       |              |          |          | (Through |        |           |          |           | numeral)     |                        |             |         |                   |           | Nan-     | ect          | ected           |                                        |                | Appeal       |            |              |          |                                        |             |                                        |              |                                        |              |          |   |
|            | Valected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |          |              |       |              |          | L        |          |        | _         | Ca       | Cancelled |              |                        | _           | Ľ       | N                 |           |          |              | İ               | Δ                                      |                |              |            |              |          | 4                                      |             |                                        |              |                                        |              |          |   |
|            | = Allowed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |          |              |       |              |          | <b>\</b> |          |        |           | Re       | stri      | tricted      |                        |             |         |                   | I Interfe |          |              | rence           |                                        | 0              | Objected     |            |              | j        |                                        |             |                                        |              |                                        |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |              |       | ***          |          |          |          | Ľ      | L         |          |           |              |                        |             |         |                   |           | L        |              |                 |                                        |                |              |            |              |          |                                        |             |                                        |              | ل                                      |              |          |   |
| r          | Entire Oniginal language of the second secon |                |          |              |       |              |          |          |          |        |           | ٦:.      | Claim     |              |                        |             |         |                   | _         | ate      |              |                 | $\neg$                                 | :-:-: <b>s</b> | Cli          | im         | T            | Date     |                                        |             |                                        |              |                                        | 7            |          |   |
| ł          | Cla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ım_            |          | Date         |       |              |          |          | Т        | Т      | 7         |          |           |              |                        |             |         |                   |           | T        | Т            | $\Box$          | ᅥ                                      |                |              |            |              |          |                                        |             | Т                                      | Т            | Т                                      | 7            |          |   |
|            | Final                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | lina           | 8        | 加            |       |              |          |          |          |        |           |          |           | Final        | Original               | ١           |         |                   |           |          | 1            | ]               |                                        |                | Fined        |            | ll           | ١        | -                                      | ŀ           | ١.                                     |              |                                        |              |          |   |
|            | Ē                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ŏ,             | 12/2     | <b>#</b>     | 55    | <b>1</b>     |          |          |          |        | ı         |          |           | Œ            | Q                      |             |         | 11                |           | 1        | ı            |                 |                                        | Œ              |              | Original   | lΙ           |          |                                        | 1           |                                        |              |                                        | ١            |          |   |
| ŀ          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1              |          | 씏            |       | ┝            | ┝        | ╁        | ╁        | ╫      | ╁         | ┨        | H         |              | 51                     | $\vdash$    | H       | $\dashv$          | +         | +        | +            | ++              | ㅓ                                      |                | _            | 101        |              |          | +                                      | 7           | $\top$                                 | $^{\dagger}$ | 1                                      | $\perp$      | <u> </u> |   |
| ł          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2              | 2        | Ť            | M     |              | 上        | L        |          | İ      | 土         | 1        |           |              | 52                     |             |         |                   | $\Box$    |          | I            | $\Box$          |                                        |                |              | 102        |              |          | $\Box$                                 | $\sqsupset$ | $\downarrow$                           | $\downarrow$ | $\downarrow$                           | $\downarrow$ | ]        |   |
| Ţ          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8              | =        |              | W     |              | 1/2      | 277      | W        |        | ? Z/      | 4        |           |              | 53                     | -           | Н       |                   | 4         | 4        | +            | ++              | _                                      |                |              | 103<br>104 | Н            | $\dashv$ | -                                      | +           | +                                      | +            | ╁                                      | +            | $\dashv$ |   |
| -          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8              | 8 8      | H            | =     | 77           | 202      | 12       | 1/2      | 1      | 20        | ,        | H         |              | 54<br>55               | H           | Н       |                   | ┿         | +        | ╅            | +++             | -                                      |                |              | 105        | $\vdash$     | $\dashv$ | +                                      | +           | $\dagger$                              | +            | 1                                      | $\pm$        |          |   |
| 1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>_</del> 6 | u        | V            | I     | Γ            | Γ        | Г        | П        | 1      |           |          |           |              | 56                     |             |         |                   |           | ユ        | ユ            |                 |                                        |                |              | 106        | $\Box$       |          |                                        | 7           | 1                                      | 1            | I                                      | I            | 7        |   |
| l          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7              |          |              | 11    | $\mathbb{Z}$ | 10       | 2        | 1        | 1      | 11/       | 2        |           |              | 57                     |             | П       |                   | 4         | 4        | 4            | +               | _                                      |                |              | 107<br>108 | $\vdash$     | Н        | 4                                      | +           | +                                      | +            | +                                      | +            | 4        |   |
| - 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8_             | =        | ¥            | =     | -            | ╀        | ┼        | ╁        | +      | ╀         | -        |           |              | 58<br>59               | ╁╌          | Н       | -                 | -         | +        | +            | ╅               | -                                      |                |              | 109        | -            | -        | 十                                      | +           | 十                                      | +            | +                                      | $\dagger$    | ┨.       |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9              | -        | Н            | =     | $\vdash$     | $\vdash$ | ╁╌       | 十        | 十      | ╁         | 1        |           |              | 60                     | L           |         |                   |           | 1        | Ì            |                 |                                        |                |              | 110        |              |          |                                        | $\Box$      | $\Box$                                 | $\Box$       | 1                                      | I            |          |   |
| 1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11             |          | V            | =     |              | L        | L        | 1        | I      |           | 1        |           |              | 61                     |             |         |                   |           | $\Box$   | $\Box$       | $\Box$          |                                        |                |              | 111        | L            | Н        | $\dashv$                               | 4           | -                                      | 4            | +                                      | +            | -        |   |
| j          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .12            |          |              |       | L            | L        | 1        | 1        | 4      | +         | _        |           |              | 62<br>63               | ╀╌          | Н       | Н                 | $\dashv$  | $\dashv$ | ┽            | -               |                                        |                |              | 112<br>113 | $\vdash$     | Н        | $\dashv$                               | $\dashv$    | $\dashv$                               | +            | +                                      | +            | ┨        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13<br>14       | -        | -            | ┝     | ╁╌           | ╁        | ╁        | +        | ╁      | +         | -        |           |              | 64                     | t           | Н       | Н                 | $\neg$    | 7        | +            | +               |                                        |                |              | 114        |              |          |                                        |             |                                        |              | 1                                      |              |          |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15             | -        |              | H     | t            | t        | 1        | 1        | 1      | $\perp$   |          |           |              | 65                     |             |         |                   |           |          | $\Box$       |                 |                                        |                |              | 115        | _            |          |                                        | _           | 4                                      | 4            | -+                                     | 4            | 4        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16             |          |              |       |              | L        | I        | I        | Ţ      | Į         | ]        |           |              | 66                     | L           | _       | Щ                 | Н         | -        | 4            | +               | -                                      |                |              | 116<br>117 |              | $\vdash$ | Н                                      | ᅱ           | $\dashv$                               | ┥            | +                                      | ╁            | $\dashv$ |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 17<br>18       | <u> </u> | _            | ┞     | ╀            | ╀        | ╀        | ╀        | ╁      | +         | -        |           |              | 67<br>68               | ╀╌          | ╁       | Н                 | Н         | ┪        | $\dashv$     | $\dashv$        | -                                      |                | H            | 118        |              |          |                                        | $\exists$   | $\exists$                              |              |                                        | 1            | コ        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19             | -        | 一            | ┢     | †-           | T        | T        | 十        | †      | $\dagger$ | ٦        |           |              | 69                     | İ           |         |                   |           | コ        |              |                 |                                        |                |              | 119        |              |          |                                        |             | _                                      |              | -                                      | 4            | 4        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20             |          |              |       |              | I        | I        | I        | I      | Ţ         | ]        |           |              | 70                     | 1           |         |                   | $\sqcup$  |          | -            | $\dashv$        | ┡                                      |                |              | 120<br>121 |              | -        | Н                                      |             | $\dashv$                               | $\dashv$     | +                                      | ╅            | ┨        |   |
|            | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21<br>22       | ┡        | ┞            | ╀╌    | ╀            | ╀        | +-       | +        | +      | +         | -        |           |              | 71<br>72               | +           | ╁╴      | $\vdash$          | Н         | ┨        | $\dashv$     | -               | ┝                                      |                |              | 122        | ╁╴           |          | Н                                      |             |                                        |              | 工                                      | I            | ゴ.       |   |
|            | ├─                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23             | ┢        | ┢            | ╁╴    | t            | +        | ╁        | +        | †      | †         | 7        |           |              | 73                     | 1           | İ       |                   |           |          |              |                 |                                        |                |              | 123        |              |          | П                                      |             |                                        | _            | 4                                      | 4            | 4        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24             |          |              |       | I            | I        | I        | 1        | 1      | I         |          |           |              | 74                     | Į.          | L       |                   | Н         | $\dashv$ | -            | -               | -                                      |                |              | 124<br>125 |              | ├        | Н                                      |             | $\vdash$                               | ┥            | $\dashv$                               | +            | $\dashv$ |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25             | ├-       | ┞            | ╀     | ╀            | ╀        | ╀        | +        | +      | +         | 4        |           | ├            | 75<br>76               |             | ╀╌      | -                 | Н         | $\dashv$ | Н            |                 | ┝                                      | 1              | <b></b> -    | 126        |              | ┢        | H                                      |             |                                        |              |                                        | 1            |          |   |
|            | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 26<br>27       | ┝        | ┝            | ╁╴    | ╁            | +        | ╁        | ╁        | +      | +         | ٦        |           | _            | 77                     | Τ           |         |                   |           |          |              |                 |                                        |                |              | 127        | $\mathbb{I}$ |          | П                                      |             |                                        |              |                                        | 4            | 4        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 28             |          | L            | L     | L            | İ        | 工        | 工        | 1      | 1         |          |           |              | 78                     | I           |         |                   | П         |          |              | $\Box$          |                                        |                | <u> </u>     | 128        | +            | -        | Н                                      | 4           | H                                      | $\dashv$     | $\dashv$                               | -            | $\dashv$ |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 29             |          | $\Box$       | F     | F            | $\perp$  | 4        | +        | +      | _         |          |           | <u> </u>     | 79<br>80               |             | ╁       | $\vdash$          | H         | -        | Н            |                 | -                                      |                | <del> </del> | 130        |              | +        | Н                                      | -           | ┢                                      | _            |                                        | _            | _        |   |
|            | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30<br>31       | ╫        | ╁╌           | ╁     | ╁            | +        | +        | +        | +      | +         | 4        |           | <del> </del> | 81                     |             | T       |                   | $\vdash$  |          |              |                 |                                        |                |              | 131        | oxdot        |          |                                        |             |                                        |              |                                        | 口            |          |   |
|            | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32             |          | İ            |       | I            | 土        | 1        | 士        | 士      | 土         |          |           |              | 82                     |             |         |                   | 口         | П        | 口            | 工               | Г                                      |                |              | 132        |              | 1        | Н                                      |             | Н                                      | _            | H                                      | 4            | $\dashv$ |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 33             | L        | Г            | Г     | F            | T        | Ŧ        | 1        | 4      | +         | 4        |           | <u> </u>     | 83<br>84               | _           | +       | -                 | Н         | $\vdash$ | $\vdash$     | +               | $\vdash$                               | ł              |              | 133        |              | ╁╌       | Н                                      | Н           | ┝┥                                     | -            | Н                                      | $\dashv$     | $\dashv$ | • |
|            | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 34<br>35       | ╁        | +            | ╀     | ╁            | ╁        | ╁        | +        | +      | +         | $\dashv$ |           | $\vdash$     | 85                     |             | +       | T                 | H         |          | Н            | _               |                                        |                |              | 135        |              |          |                                        |             |                                        |              | 口                                      |              |          |   |
|            | <b> </b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36             | T        | T            | T     | 士            | 士        | 士        | 士        | 1      | 士         | ٦        |           |              | 86                     |             | I       |                   |           |          |              |                 |                                        |                |              | 136        |              | <u> </u> |                                        |             | $\sqcup$                               |              | $\vdash \downarrow$                    | _{           | $\dashv$ |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 37             |          | $\Box$       | L     | I            | Ţ        | T        | 4        | 1      | 4         | _        |           |              | 87                     |             | $\perp$ | ┡                 | Н         | H        | Н            | +               | ┝                                      |                |              | 137        |              | ⊢        | Н                                      | $\vdash$    | ┤┤                                     | _            | H                                      | +            | $\dashv$ |   |
|            | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 38<br>39       | +        | $\vdash$     | ╀     | ╀            | +        | +        | +        | +      | +         | $\dashv$ |           | -            | 88                     |             | +       | ╁╴                | Н         | $\vdash$ | Н            | -               | Η                                      |                |              | 139        |              |          |                                        |             |                                        |              |                                        |              |          |   |
|            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40             | ╁        | $\dagger$    | 1     | 亅            | 士        | +        | 士        | †      | 士         | 1        |           |              | 90                     | $\perp$     | I       |                   | $\Box$    |          |              |                 | L                                      | ]::            |              | 140        | $\perp$      | F        | Г                                      |             | П                                      |              | П                                      | $\neg$       | 4        |   |
| •          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 41             | $\perp$  | L            | T     | Ţ            | T        | T        | 1        | 1      | $\bot$    | 4        |           | <u> </u>     | 91                     |             | 4       | 1                 | $\vdash$  | <u> </u> | -            | -               | $\vdash$                               | -              |              | 141        |              | ╁        | ╁                                      | ┝           | $\vdash$                               | _            | Н                                      | -            | $\dashv$ |   |
|            | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 42             |          | ╀            | +     | ╀            | +-       | +        | +        | +      | +         | $\dashv$ |           | -            | 92<br>93               |             | +       | $\vdash$          | $\vdash$  | -        | ┢            | $\vdash \vdash$ | +                                      | 1              |              | 143        |              | T        |                                        |             |                                        |              |                                        |              |          |   |
|            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 44             | _        | T            | T     | +            | 士        | 士        | _        | _      | $\exists$ |          |           |              | 94                     |             | I       |                   |           |          |              |                 | L                                      | ]              |              | 144        |              | F        | Г                                      | Ĺ           | П                                      |              |                                        | Ц            | Ц        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 45             | Ι        | I            | I     | I            | I        | I        | I        | I      | 7         | 4        |           |              | 95                     |             | 4       | Ļ                 | +         | ļ        | <del> </del> | <del>   -</del> | H                                      | -              | <u> </u>     | 145        |              | +        | +-                                     | $\vdash$    | $\vdash$                               | -            | Н                                      | Н            | Н        |   |
|            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 46             |          | +            | +-    | +            | +        | ╁        | +        | +      | $\dashv$  | $\dashv$ |           | -            | 96                     |             | +-      | +                 | ╁         | -        | $\vdash$     | ┼┼              | t                                      | 1              | -            | 147        |              | 1        | 1                                      |             |                                        |              |                                        |              | 口        |   |
|            | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48             | _        | $^{\dagger}$ | $\pm$ | 1            | 士        | 士        | $\pm$    | ╛      | 士         | J        |           |              | 98                     |             | 1       |                   |           |          |              |                 | I                                      | ]              |              | 148        | ī            | F        | F                                      | Г           | $\Box$                                 | F            | П                                      |              | Ц        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 49             | I        | I            | Ţ     | Ţ            | 1        | I        | I        | $\Box$ | J         | $\Box$   |           |              | 99                     |             | $\bot$  | Į.                | $\perp$   | $\vdash$ | $\vdash$     | ├┼              | ╀                                      | -              | <u> </u> -   | 149        |              | ╁        | ╁                                      | ┢           | ⊢                                      | ⊢            | ╁                                      | $\vdash$     | Н        |   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50             | _لـ      | L            | ┸     | L            |          | ᆚ        | ᆚ        |        |           |          | :::       | :            | 10                     | <u>U</u> _  |         | L                 | 丄         | <u></u>  | Ŀ            | Ц_              | _ـــــــــــــــــــــــــــــــــــــ | ∷ال            | ـــا:        | 112        | <u> </u>     | 1        | ــــــــــــــــــــــــــــــــــــــ | 1           | ــــــــــــــــــــــــــــــــــــــ | Щ.           | ــــــــــــــــــــــــــــــــــــــ | ـــا         | لـــا    |   |